

ESOTERIC

D-01

Monaural D/A Converter
for Super Audio CD and CD

Owner's Manual



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this device.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
 - Do not expose this apparatus to drips or splashes.
 - Do not place any objects filled with liquids, such as vases, on the apparatus.
 - Do not install this apparatus in a confined space such as a book case or similar unit.
 - The apparatus draws nominal non-operating power from the AC outlet with its POWER switch in the off position.
 - The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
 - An apparatus with Class I construction shall be connected to an AC outlet with a protective grounding connection.



WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS ARE WITHIN!
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT TEAC FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the equipment and/or the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced electronic technician for help.

CAUTION

Changes or modifications to this equipments not expressly approved by TEAC CORPORATION for compliance will void the user's warranty.

CAUTION

Ensure this product is not exposed to dripping or splashing and that no object filled with liquids, such as vases, is placed on the product.

Do not install this equipment in a confined space such as a book case or similar unit. Allow adequate air circulation around this product.

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Thank you for choosing Esoteric. Read this manual carefully to get the best performance from this unit.

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Before Use

What's in the box

Please confirm that the following accessories are in the box when you open it.

- Power cord x 1
- Felt pads x 4
- Owner's manual x 1
- Warranty card x 1

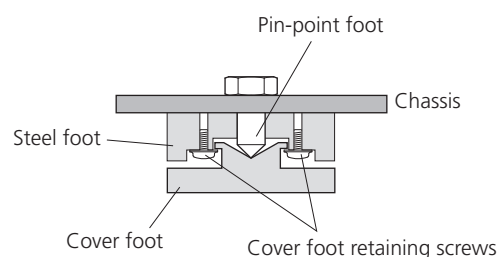
Read this before operation

- As the unit may become warm during operation, always leave sufficient space around the unit for ventilation.
- The voltage supplied to the unit should match the voltage as printed on the rear panel. If you are in any doubt regarding this matter, consult an electrician.
- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, heat, cold or moisture.
- Do not place the unit on the amplifier/receiver.
- Do not open the cabinet as this might result in damage to the circuitry or electrical shock. If a foreign object should get into the unit, contact your dealer or service company.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank the cord.
- Do not attempt to clean the unit with chemical solvents as this might damage the finish. Use a clean, dry cloth. A soft cloth moistened with a diluted amount of household or window cleaner can be used to remove more stubborn dirt.
- Keep this manual in a safe place for future reference.

Placement of the unit

High-quality hardened tool steel is used for the pin-point feet, securely attached to the bottom of the player. Although the cover feet may appear loose, as the weight of the unit is applied, they become firm and secure. This design effectively damps and reduces vibration.

- Be careful to avoid injury when moving the unit, on account of its weight. Get someone to help you if necessary.
- To protect floors, etc. you may stick the felt pads supplied with the unit to the bottom of the cover feet.



The world's first* mono D/A converter that realizes the full potential of the Super Audio CD format

(* as of August, 2004)

Our approach of "improvement in sound quality through discrete L/R channel transmissions" has evolved into a completely discrete L/R system having two D-01s, one handling the left channel, and the other the right channel.

The left and right audio signal paths have nothing at all for common use, both paths are completely isolated and identical, creating the highest possible reproduction quality, non-compromised sound. This system also proves its ability in reproducing ambience and presence data and recreates details of the performance environment or a feeling of the original recording session.

What's more, because each channel has its own power supply, the design of this supply can be optimized with ample headroom, achieving an ideal D/A conversion.

- 2 XLR (ES-LINK), 1 RCA, and 2 IEEE 1394 inputs are provided
- DSD signals from Super Audio CD are fed in through XLR terminals in an Esoteric-exclusive format, ES-LINK, or through the IEEE 1394 interface.
- A maximum 192 kHz PCM signal can accepted (both Dual and Stereo transfers available).
- When stereo or multi-channel signals are fed in, only the sound of the channel you set as explained in the section, "Channel Selection"(pages 11 and 13), is selected.
- Three digital filter options are provided: FIR, RDOT, and FIR+RDOT. The filtered signal is converted up to a maximum 768 kHz and then sent to the multi-bit D-A converter PCM1704. The DSD signal from Super Audio CD is converted to 88.2 kHz or 176.4 kHz PCM data before being sent to the digital filter.
- Equipped with RAM-Link (Refined Asynchronous Memory Link), using a high-precision crystal oscillator, that when entering word sync mode, the RAM-Link is automatically activated and acts to eliminate jitter caused before the first stage of the DAC.
- For the D/A converter, a combination of as many as eight PCM1704 multi-bit D-A converters is used for the best possible S-N ratio and linearity, which makes it possible to faithfully replicate the ambience and presence of the performance environment.
- The driver circuitry that sends out D/A converted signals uses a discrete circuit structure operating on ± 42 volt rails with emphasis on driving force and slew rate, making a significant contribution to the remarkable sound.

Word Sync enabled - Making Synchronizing with External Equipment Possible

The word sync feature operates either in "OUT" mode (as a word clock generator) or in the "IN" mode that allows this unit to lock to an external word clock. It can lock to 44.1, 88.2, 176.4, 48, 96, 192, 100, 48P, 96P, 192P and 100P (kHz) inputs/outputs. ("P" represents "4% down mode for PAL films".)

Selecting the "Rb IN" mode will select a PLL circuit devoted solely to synchronizing with a rubidium or other high-precision clock. The use of ESOTERIC's rubidium master clock generator G-0s, will produce the most remarkable listening experience with a feeling of speed and subtle clarity.

Analog potentiometer allows a direct connection to a power amplifier

With the built-in analog potentiometer ("VOLUME"), concern's over truncating or dropping bits, as used in digital attenuators, is negated.

Copper wires of 6N purity are used for primary internal wirings, further enhancing sound quality

High purity 6N copper wires are used for the supplied AC power cord and most of the internal wirings that may have effect on the sound quality, thereby boosting the purity and resolution for a crisp, textured sound.

For the insulating sheath, polyorefin, non-PVC material, is used out of environmental considerations as well as sound quality. PVC is not used for any wiring inside the unit. The high purity 6N copper cable is developed with the help of Acro Japan Ltd. as is the case with the Esoteric "MEXCEL" interconnection cable and high purity 8N copper cable.

Highly rigid chassis is immune to internal and external vibrations that might degrade sound quality

Thick aluminum is used on the top, side, bottom panels and rounded corners in addition to the front panel. The entire body is supported by Esoteric-exclusive pinpoint feet (patent pending) made of case-hardened tool steel. Exacting attention is given to the highly precise mounting of all mechanical parts, the rigidity of the housing, and the elimination of sympathetic vibrations. To make double sure, an 8-mm thick plate is used for the upper cover that is subject to the sound pressure and vibrations from the speakers.

The front and side panels, constructed of thick brushed aluminum, and the rounded four corners create a feeling of dignity and gravitas, fitting only to the top level mono D/A converter for Super Audio CD/CD.

"Super Audio CD" is a registered trademark.
"DSD" is a registered trademark.

The i.LINK format, also known as IEEE 1394, is an international specification for the transferring of extremely fast data. This unit is ready for i.LINK (AUDIO).

By connecting an i.LINK (AUDIO)-capable device to the IEEE 1394 (or i.LINK AUDIO) terminal on this unit using an i.LINK cable, you can transmit Super Audio CD multi-channel signals that could not be transmitted except in analog format in the past. With i.LINK AUDIO, Super Audio CD can be transmitted in its original digital format, in addition to the capability of transmitting 2-ch linear PCM data and multi-channel compressed audio signals.

If you have multiple i.LINK-capable devices, you can connect them through other devices to transmit data between them. With i.LINK, you don't need to be concerned about the order of connection and wiring errors and phase issues are virtually eliminated.

Copyright protection system DTCP

To play back audio sounds recorded on Super Audio CD or DVD discs using i.LINK, both the player and the D/A converter need to be ready for the copyright protection system DTCP (Digital Transmission Content Protection). The D-01 already accepts DTCP.

Data transfer rate

There are three transfer rates: 100 Mbps (S100), 200 Mbps (S200), and 400 Mbps (S400). This unit is capable of transferring data at a maximum 400Mbps.

For connection to an i.LINK-capable device, use a commercially available S400-compliant 6-pin i.LINK cable.

When connecting multiple i.LINK-capable devices, avoid connecting a device having slow transfer rate between devices having high transfer rate since this reduces the transfer rate of your whole system. Connect devices having high transfer rate towards the source as far upstream as possible.

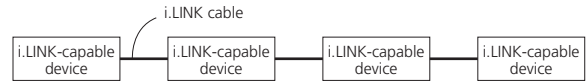
NOTES

- Among the i.LINK formats there are "MPEG-2 TS" for BS digital source and "DV" for digital video for DVD recorders, as well as the "i.LINK (AUDIO)" (A&M Protocol). Never connect devices that are not ready for i.LINK (AUDIO) to this unit. If you do, this unit and others may get out of order or be damaged.
- In the process of data transfer, avoid plugging or unplugging the i.LINK cables while in use or switch the power on and off.
- Among the i.LINK-capable devices there are some that, if not turned on, are not capable of relaying data.
- There is a possibility some i.LINK-capable devices will not respond to this unit's command.

How to connect multiple i.LINK-capable devices

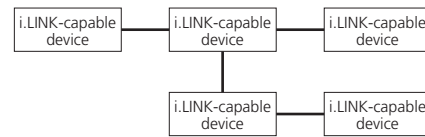
Daisy chain connection

You can daisy-chain up to 17 devices including this unit.

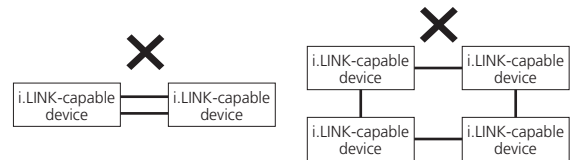


Connection in tree structure

If you are using a device having three or more i.LINK connectors, you may want to get the connection branched out. This way of connection allows you to connect up to 17 devices including this unit.



Your system does not work if data is fed back to the output device. Be careful not to create a loop.



The i.LINK interface of this unit is designed in accordance with the following specifications:

- 1) IEEE Std 1394a-2000, Standard for a High Performance Serial Bus
- 2) Audio and Music Data Transmission Protocol 2.0

This unit is compliant with IEC 60958 bitstream, DVD-Audio, Super Audio CD in the AM824 sequence adaptation layers of this protocol.

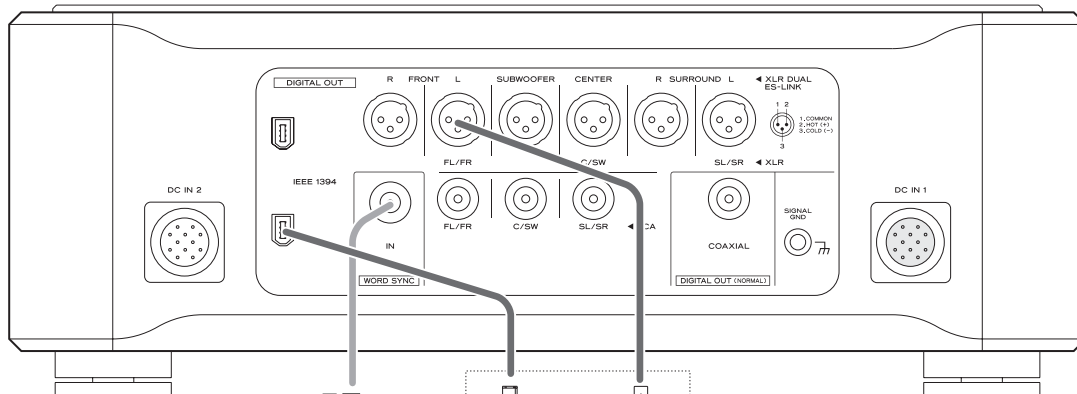
The i.LINK logo is a trademark of Sony Corporation, registered in the U.S. and other countries.

Connections

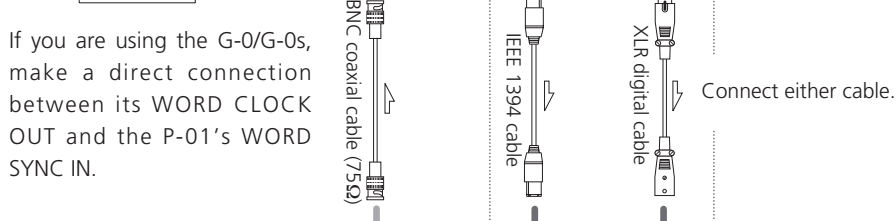
CAUTION:

- Switch off the power to all equipment before making connections.
- Read the instructions of each component you intend to use with this unit.
- Be sure to insert each plug securely. To prevent hum and noise, avoid bundling the signal interconnection cables together with the AC power cord or speaker cables.

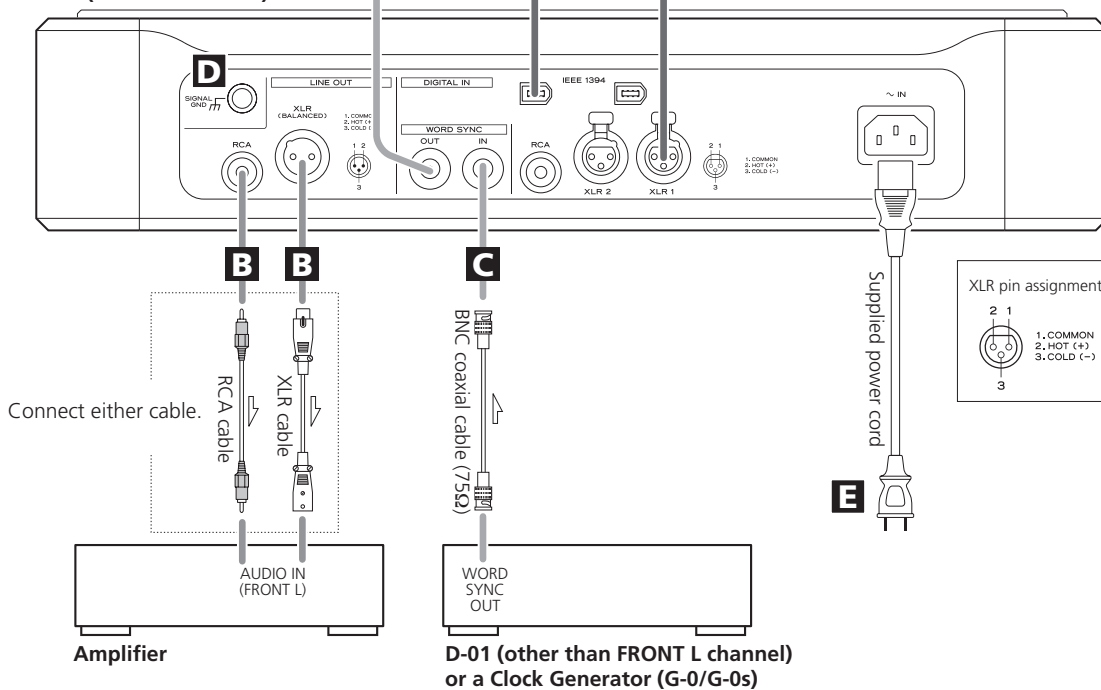
SACD/CD Drive Unit (P-01)



If you are using the G-0/G-0s, make a direct connection between its WORD CLOCK OUT and the P-01's WORD SYNC IN.



D-01 (FRONT L channel)



A Digital audio input terminals

Connect any one of these terminals to the digital output terminal of a digital device (P-01, etc.) using a commercially available cable.

XLR: Use balanced XLR digital audio cable

COAXIAL: Use RCA (pin) digital audio cable

IEEE1394 / i.LINK (AUDIO):

Use S400 compatible IEEE1394 6pin cable

- The IEEE 1394 terminal, or i.LINK (AUDIO) terminal, is an interface that transmits data both ways between the D-01 and an external device. You don't need to be concerned with distinguishing between inputs and outputs.
- The XLR terminal is equipped for Dual AES. If your digital equipment also is, make the connection between this unit's XLR terminal and the corresponding terminal (i.e., the channel output you want to feed into this unit) on your digital equipment.

B Analog audio output terminals [LINE OUT]

If your amplifier has an audio XLR input, use a commercially available balanced XLR cable for connection.

If your amplifier has no XLR input, use a commercially available RCA audio cable.

C WORD SYNC input/output terminal

This sends out and receives a sync signal (word).

Connect the WORD SYNC IN to your master clock generator such as the G-0/G-0s or the word clock output terminal on the D-01 for an another channel.

Connect the WORD SYNC OUT to the word sync input on your other digital equipment.

For connection, use a commercially available BNC coaxial digital cable (75Ω impedance).

D SIGNAL GND connection

Use a commercially available insulated stranded wire to connect the signal ground terminal on the unit to the amplifier signal ground.

- Note that this is NOT an electrical safety ground (earth).

E Power cord receptacle

After all other connections have been made, insert the supplied AC power cord into this receptacle, then connect the other end of the power cord into the AC power source. Ensure that your AC voltage corresponds to the voltage marked on the rear panel of the unit. Consult a qualified electrician if you are in doubt.

- In order to avoid the risk of electric shock, fire, or other hazard, only use the supplied power cord or a suitably approved OEM power cord.
- If you are not going to use the unit for some time, disconnect the power cord from the wall socket.

When the P-01 is connected

If the Super Audio CD/CD drive unit, Esoteric P-01, is connected to the D-01, the following setup will provide you with the best quality sound:

Setting of the P-01

OUTPUT button	"XLR DUAL" or "IEEE1394"
WORD button	"IN" (When the G-0s is connected, "Rb IN")
UP CONVERT button	"176.4/192"

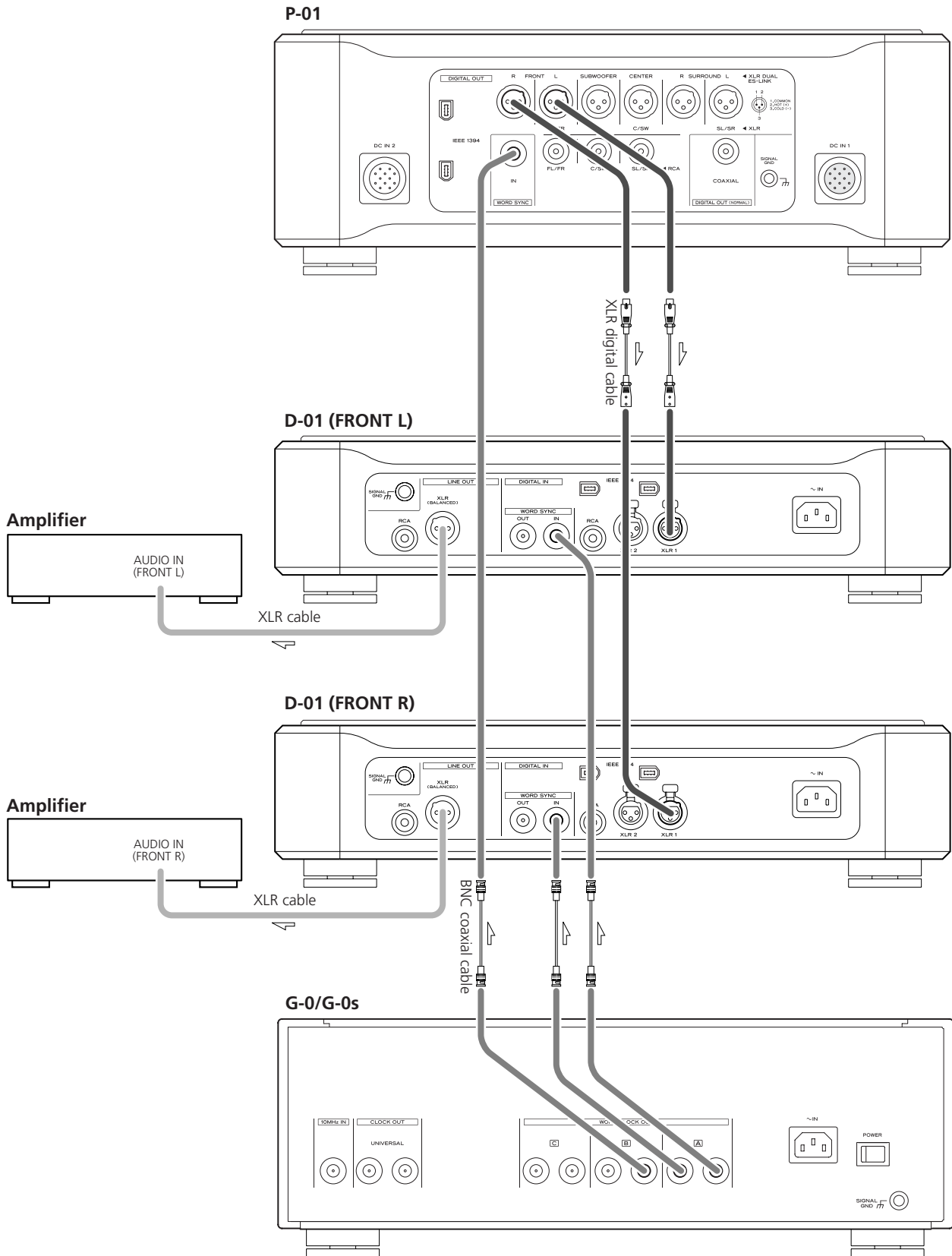
Setting of the D-01

INPUT button	"XLR 1", "XLR 2" or "IEEE1394"
WORD button	One of the D-01 that outputs word synchronization signals: "OUT" The others: "IN" When the G-0s is connected, set all the D-01 to "IN". When the G-0s is connected, set all the D-01 to "Rb IN".
W_OUT setting	"176.4"
CH_SEL setting	respective channels

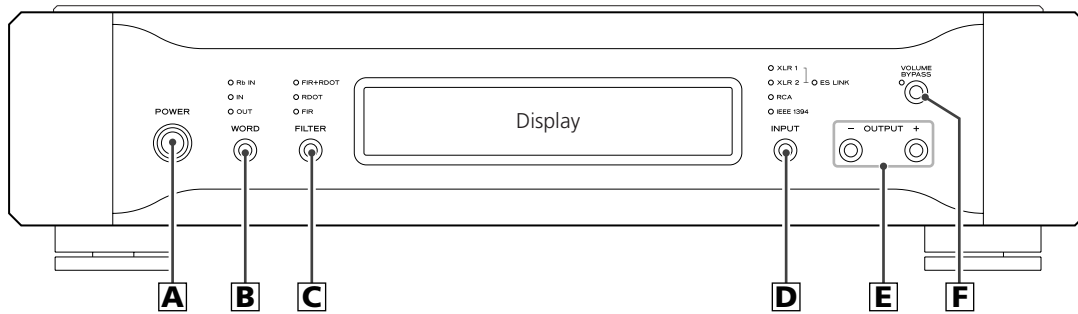
Setting of the G-0/G-0s

Frequency change button (A, B or C)	176.4kHz
FREQUENCY MODE button	44.1kHz

Example: Connection to the P-01 and the G-0/G-0s



Names of Each Control 1



A POWER

Use this button to turn the unit on or off. When the unit is on, the ring surrounding the button lights up.

The equipment draws nominal non-operating power from the AC outlet with its POWER switch in the OFF position.

B WORD

Use this button to switch between word sync modes. A mode indicator lights up to show the current mode (blue indicators showing normal modes, and a purple indicator showing the 4% down mode). The indicator blinks when no usable word sync signal is detected. No indicator lights when word sync is not being used.

OUT

Lets the unit internally generate and send out Word Clock so the unit acts as a master.

IN

This mode provides a stable sync operation with most general external clocks. There are occasions when sync is not achieved depending on the output accuracy of the devices in use. This is because the word clock input frequency range of this unit is set to as narrow as $\pm 15\text{ppm}$, a requirement in order to achieve a sync of high accuracy.

Rb IN

This is a mode designed for external clocks of a higher degree of precision like a rubidium clock generator. Select this mode when this unit is connected to the ESOTERIC G-0s. Keep in mind that it will take time before the sync is achieved in this mode. This mode requires an even narrow bandwidth of accuracy to lock.

Switch the mode to IN when "WRD UNLOCK" or "WRD ERROR!" is shown.

Off (tuned off)

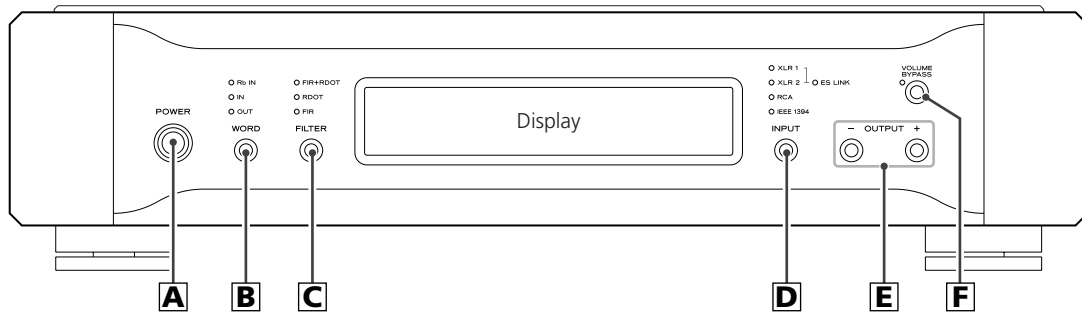
The unit does not use any word sync.

4% down mode

Pressing and holding this button for more than 3 seconds switches the unit back and forth between 4% down and normal modes.

- Selecting IN or Rb IN modes achieves sync by using an external clock as master. When in those modes, the word clock fed into the WORD SYNC IN terminal is directly sent out through the WORD SYNC OUT terminal.
- This unit readily accepts a maximum 196 kHz clock and automatically switches itself to the incoming signal.
- When selecting IN or Rb IN modes, the corresponding indicator blinks and searches for an external clock. When the unit detects a clock and locks to it, the indicator lights steadily (blue) to show that the unit is ready for play.
- Make connections to the WORD SYNC terminals prior to powering on the unit.

Names of Each Control 2



C FILTER

This button selects algorithms for upward conversion. Pressing the button repeatedly rotates the selection through the following (a lit indicator shows the current selection):



RDOT

A fluency digital filter that does upward sample rate conversion. This filter has a slow roll-off characteristic and provides a smooth immersive sound. A maximum 16 times up-conversion is available.

FIR

An FIR-type digital filter that does upward sample rate conversion. This filter has a sharp roll-off characteristic and provides deep, well-defined sound. A maximum 8 times up-conversion is available.

FIR+RDOT

This provides a combined function of FIR and RDOT filters. The two up-conversion filters are directly coupled digitally so that the best of each is brought out.

Pressing and holding the FILTER button for more than 3 seconds shifts the unit to the setting mode (page 12).

D INPUT select switch

Use this switch to select digital inputs. Select which input your external digital device is connected. The corresponding indicator lights. It blinks when you select an input to which no device is connected or a device that is connected but either turned off or not compatible with the input type.

E OUTPUT

This button allows you to adjust the output level in 0.5 dB steps between -99.5 and +6 dB. You can also set the level to -∞. When using this feature, switch off the VOLUME BYPASS.

F VOLUME BYPASS

Pressing and holding this button for more than 3 seconds switches the Volume Bypass on and off.

On

By-passes the volume (output level) circuit. Switch the Volume Bypass on when you will be adjusting the volume using a connected preamplifier. The indicator lights up.

Off

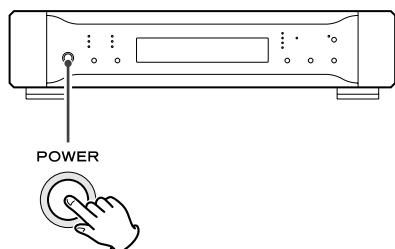
Switch the Volume Bypass off when this unit is directly connected to your power amplifier and you will use the OUTPUT button to adjust the output level. The indicator turns off.

There is danger a sudden excessively loud signal will damage the speakers if you switch the Volume Bypass on while in the process of playing a CD or other media. Be sure to reduce the preamp's volume before you switch the Volume Bypass on.

First Thing To Do

Before anything else, you must select a channel for this unit when you use it for the first time or when you have reset it back to factory settings.

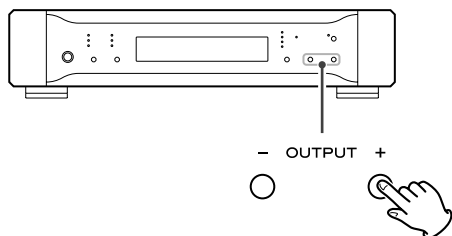
1 Press the POWER button to turn the unit on.



When the unit is on, the ring surrounding the button lights up.

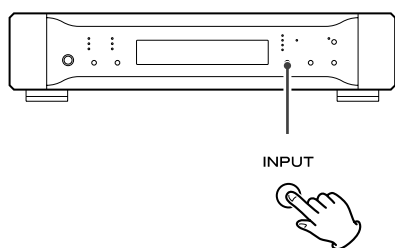
"CH_SEL>" appears on the left side of the display. On the right side, "L R" and channel icons alternately appear.

2 Press the OUTPUT button (+/-) to select a channel.



Repeatedly press the button until the channel you want to select appears on the display.

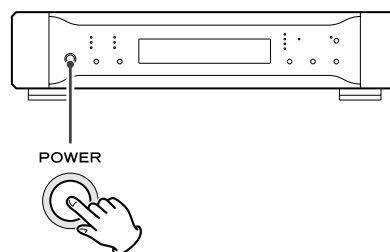
3 Press the INPUT button to confirm the entry.



If you want to change the channel setting, refer to "Channel Select" in "Changing the Settings" section (page 13).

Basic Operation

1 Press the POWER button to turn the unit on.



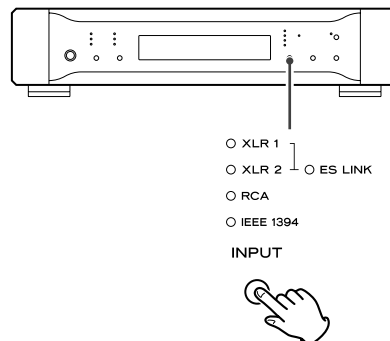
When the unit is on, the ring surrounding the button lights up.

- Also be sure the connected components are turned on.
- When the WORD button is set to "IN" or "Rb IN", "WRD UNLOCK!" or "No Word!" may appear, as it takes several seconds for the unit to lock the word clock input from the WORD SYNC IN terminal. The message will disappear when the unit locks to the word clock.

2 Make digital filter, etc. settings.

See pages 12 and 13 for details.

3 Select the input using the INPUT button.

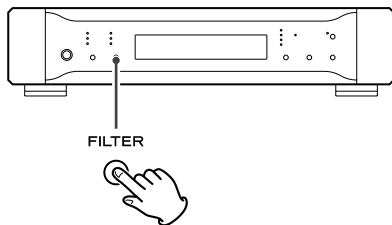


After selecting the input, play back the source unit.

- Always turn off the unit after use.
- If the XLR1 or XLR2 is selected and the XLR DUAL signal is input, the indicator turns from blue to violet

Changing the Settings

- 1** Press and hold the **FILTER** button for more than 3 seconds.

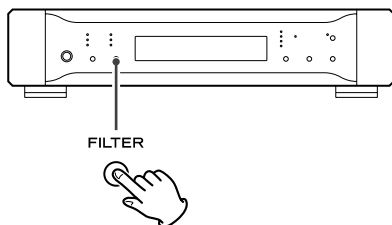


The unit enters the setup mode, and "W_OUT>***" appears on the display. (***) changes depending on the setting.)

The setup mode will be cancelled in the following instances

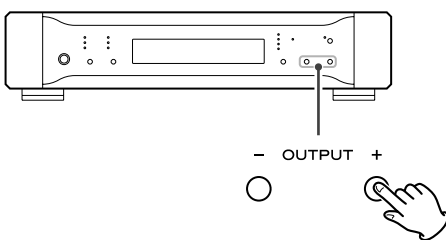
- Leave the unit idle for 8 seconds.
- Press and hold the **FILTER** button for more than 3 seconds again.
- Press any button other than **FILTER** or **OUTPUT**.

- 2** Repeatedly press the **FILTER** button to select a setting to be changed.

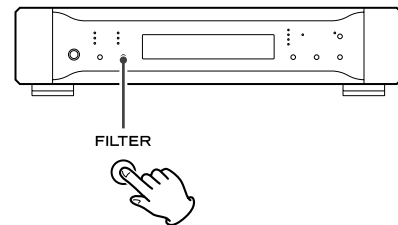


For details of each setting, see page 13.

- 3** Use the **OUTPUT** button (+/-) to change the setting.



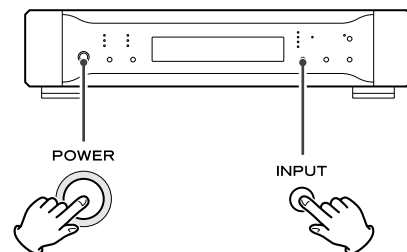
- 4** When all the settings are finished, press and hold the **FILTER** button for more than 3 seconds (or leave the unit idle for 8 seconds) to exit the setup mode.



- Switching off the power without closing the menu display may cause problems. Do not turn the unit off.
- Settings are stored even when power is turned off and the unit is unplugged. If left unplugged for an extended period, the settings may be lost.

Restoring factory settings

If you have made a lot of changes in the setup, and want to restart from a known set of options, restore the unit to the factory default settings as follows:



1. If the unit is on, press the **POWER** button to turn it off. Leave the unit for 30 seconds.
2. While holding down the **INPUT** button, press the **POWER** button. Be sure to keep the **INPUT** button depressed until the unit is turned on.

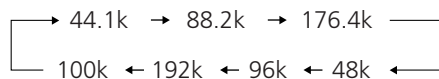
All memories are erased, and the unit returns to the factory settings.

W_OUT (Word sync output frequency)

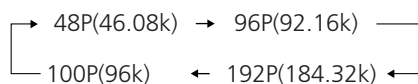
Select the frequency of the word sync signal. The factory setting is "44.1k".

- The word sync signal is output only when the WORD button is set to "OUT".

Normal Mode



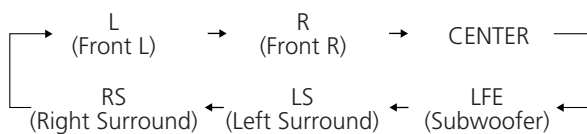
4% Down Mode



("P" means "4% down mode for PAL film")

CH_SEL (Channel Select)

Select the channel for this unit.



- The icon of the selected channel lights on the display.



- The icon will blink if the channel you set here differs from the channel of the input signal. In this case, select the proper channel again, or check the connection to the digital device.

DSD

Used to select a sampling rate (Fs) to convert DSD to PCM. 88.2 k (factory setting) or 176.4 k are available.

DSD gain

Used to select a level for DSD-PCM conversion. 0 or +6 (factory setting) are available.

- With the DSD set to 176.4 kHz and the DSD gain to +6, there is a chance that the sound will be distorted when playing back discs on which music is recorded at very high volume levels. If this is the case, set "the DSD to **88.2 kHz** and the DSD gain to +6" or "the DSD to 176.4 kHz and the DSD gain to **0**".
- When the DSD gain is set to 0, Super Audio CD discs are played back at a lower level than CDs are.

Low-pass analog filter (80kLPF)

The use of this filter produces a subtle difference in sound directivity. Switch this filter on or off (default) depending on your preference.

With this filter switched off, there is a chance that unexpected and abnormal noise could be produced and harm your speakers or trip the protection circuit on your power amplifier. To protect your system it is recommended that this filter be switched ON.

IEEE 1394 remote control function (1394RC)

When multiple D-01 units are directly connected using IEEE 1394 cables and you have this function on, the functions of all D-01's in the chain can be controlled using only the left channel D-01. The P-01 source should be the first machine in the IEEE 1394 chain followed by all the D-01's. (Do not connect the P-01 between the D-01 units.)

The linking of the control functions among the D-01s is available as long as IEEE 1394 cables are used to connect the D-01 units. You can use a different input type other than IEEE 1394 if you chose. If you do use a different input type, by also connecting the D-01s with IEEE 1394 cables you can control all D-01s with only one unit as long as this function is switched on.

With this remote control function switched off, the IEEE 1394 circuit is powered only when the input is set to IEEE 1394.

Dimmer

The display and indicators can be dimmed to suit the environment in which you listen to music. There are three levels and an "off" setting.

- In OFF mode, when you press any button, the illuminations turn temporarily on.
- Note that the OFF setting is not memorized when the power is turned off. When the unit is switched off with the display off, and then turned on again, the display is reset to the minimum brightness (Dimmer1).
- The factory setting is "Dimmer3".

Messages on the Display

ES-LINK

appears when the ES-LINK compatible Esoteric product is connected.

No Word!

There is no clock source.

UNKNOWN

The unit connected via the IEEE1394 cable is unknown.

WRD ERROR!

Invalid word sync signal is received.

WRD UNLCK!

Cannot lock the word sync signal.

LOOP ERR!

IEEE1394 connection is looped.

- Normally, "the sampling frequency of an incoming digital signal" when a CD is played back or "DSD" when an Super Audio CD is played back are shown on the left of the display. At the right shows the output level.
- No output level shows when VOLUME BYPASS is switched on.
- When detecting a device that is connected with IEEE 1394 cable, the display shows its model name (such as P-01).

Troubleshooting

If you experience any problems with this unit, please take the time to look through this chart. You may be able to solve the problem yourself before calling your dealer or technical support.

No power

- ➔ Check the connection to the AC power source. Check and make sure the AC source is not a switched outlet and that, if it is, the switch is turned on. Make sure there is power to the AC outlet by plugging in another item such as a lamp or fan.

No sound from speakers.

- ➔ Check the connection to the digital device, amplifier and speakers.
- ➔ If the volume bypass is off, adjust the output level using the OUTPUT buttons.

The INPUT indicator blinks.

- ➔ Turn on the digital device connected to the input terminal.
- ➔ Check the connection to the digital device. Make sure the source digital device and the input selection on the D-01 are the same type.

The safety circuit of the power amplifier is activated.

High-frequency noise from speakers.

- ➔ Set 80kLPF to ON.

Buzzing noise produced at regular intervals.

- ➔ The connected unit may not be in word sync mode while the D-01 is in word sync mode. Check the word sync terminal for correct connection and the settings on the connected unit.
Normally, if this problem occurs, the display reads "WRD ERROR", but this message does not appear when deviation in sync is too small and out of the word error detection threshold of the D-01.

The WORD indicator blinks.

The display shows "No Word!"

- ➔ The word sync mode is selected, but there is no clock source. Turn the word sync mode off (see page 9).
- ➔ Invalid word clock is being received. Check cables, connections, and settings of the clock generator.

The display shows "WRD ERROR!"

- ➔ Invalid word sync signal is received. Check the setting of the clock generator.

The display shows "WRD UNLCK!"

- ➔ Cannot lock the word sync signal. If "Rb IN" is selected, select "IN" using the WORD button.

If normal operation cannot be recovered, unplug the power cord from the outlet and plug it in again. This resets the internal micro-computer which can be disturbed during electrical storms, power interruptions, et cetera.

Specifications

General

Power supply
Europe model AC 230 V, 50 Hz
U.S.A./Canada model. AC 120 V, 60 Hz
Korea model AC 220 V, 60 Hz

Power consumption 23 W

Weight 21 kg (46 1/4 lbs)
External dimensions (W x H x D) 445 x 108 x 420 mm
(17 1/2" x 4 1/4" x 16 9/16")

Frequency response 2 Hz - 80 kHz, -3 dB
Signal-to-Noise Ratio (S/N) 118 dB (JEITA)
Dynamic range 112 dB (JEITA)
Total harmonic distortion 0.001% (JEITA)

Valid Sampling Frequency (kHz)

32, 44.1, 88.2, 176.4, 48, 96, 192, 48P(=46.08),
96P(=92.16), 192P(=184.32)
DSD (IEEE1394 or ES-LINK only)

Word Clock Frequency (input/output)

Normal mode 44.1, 88.2, 176.4, 48, 96, 192, 100 (kHz)

4% down mode
48P(=46.08), 96P(=92.16), 192P(=184.32), 100P(=96) (kHz)

Input frequency range
WORD IN mode ± 15 ppm
Rb IN mode is designed for extremely precise external
clocks like a rubidium clock generator.

Sampling frequencies corresponding to de-emphasis
32, 44.1, 48, 96 (kHz)

Input Terminals

Digital XLR x2, 5.0Vp-p ± 0.1 V/110 Ω
RCA x1, 0.5Vp-p ± 0.1 V/75 Ω
IEEE1394 IEEE1394 x2
WORD SYNC BNC x1, TTL level/75 Ω

Output Terminals

Analog RCA x1, 2.2Vrms ± 0.1 V/10k Ω
XLR x1, 2.2Vrms ± 0.1 V/10k Ω
WORD SYNC BNC x1, TTL level/75 Ω

Accessories

Power cord x 1
Felt pads x 4
Warranty card x 1
Owner's manual x 1

- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations may differ slightly from production models.

Block Diagram

